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Magnetic Device for Preventing Upper Gastrointestinal Luminal Device Migration

Tech ID: 33664 / UC Case 2023-806-0

BRIEF DESCRIPTION

A novel magnetic device designed to prevent migration of upper gastrointestinal intraluminal devices, increasing their clinical functionality and patient safety.

FULL DESCRIPTION

Researchers at UCI have developed a technology that involves a stent or device that uses the force of repulsion between magnets to prevent device migration within the upper gastrointestinal tract, by creating an upward force that combats downward forces.

SUGGESTED USES

- » Treatment of diseases resulting in esophageal obstructions such as achalasia and malignant aphasia
- » Management of gastric leaks in bariatric patients
- » Long-term treatment for patients with benign gastrointestinal pathologies
- » Potential use in endoscopic weight loss strategies

ADVANTAGES

- » Minimizes need for repeat procedures to relocate migrated stents
- » Does not increase risk of esophageal perforation, mucosal atrophy, mucosal inflammation, or fistula formation
- » Allows for broad use across many esophageal conditions
- » Potential for use in weight loss treatments as an alternative to invasive bariatric surgery
- » Avoids additional complications associated with other migration prevention strategies

PATENT STATUS

Patent Pending

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OTHER INFORMATION

CATEGORIZED AS

- » Medical
- » Devices

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